

ORDER FOR SUPPLIES OR SERVICES										PAGE 1 OF 21			
1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. N65540-15-D-0005			2. DELIVERY ORDER/ CALL NO. N6449821FBB31		3. DATE OF ORDER/ CALL (YYYYMMDD) 2021 Jun 28		4. REQ./ PURCH. REQUEST NO. 1300003274		5. PRIORITY				
6. ISSUED BY NAVAL SURFACE WARFARE CENTER PHILA (b) (6)(b) (6)(b) (6)(b) (6)(b) (6) (b) (6)(b) (6)(b) (6)(b) (6)(b) (6)(b) (6) 5001 SOUTH BROAD STREET PHILADELPHIA PA 19112			CODE N64498		7. ADMINISTERED BY (if other than 6) NAVAL SURFACE WARFARE CENTER PHILA 5001 SOUTH BROAD STREET PHILADELPHIA PA 19112			CODE N64498		8. DELIVERY FOB <input type="checkbox"/> DESTINATION <input checked="" type="checkbox"/> OTHER (See Schedule if other)			
9. CONTRACTOR GENERAL DYNAMICS INFORMATION TECHNOLOGY, GDIT NAME AND ADDRESS 3150 FAIRVIEW PARK DR STE 100 FALLS CHURCH VA 22042-4504			CODE 07MU1		FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED				
							12. DISCOUNT TERMS		13. MAIL INVOICES TO THE ADDRESS IN BLOCK See item 15				
14. SHIP TO NAVAL SURFACE WARFARE CENTER PHILA (b) (6)(b) (6)(b) (6)(b) (6) NSWC PHILADELPHIA DIVISION NSLC DETACHMENT 1601 LANGLEY AVE BLDG 542 PHILADELPHIA PA 19112			CODE N64498		15. PAYMENT WILL BE MADE BY DFAS COLUMBUS CENTER, SOUTH ENTITLEMENT O P.O. BOX 182264 COLUMBUS OH 43218-2264			CODE HQ0338		MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.			
16. TYPE OF ORDER		DELIVERY/ CALL		<input checked="" type="checkbox"/> X		This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.							
		PURCHASE				Reference your quote dated Furnish the following on terms specified herein. REF:							
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.													
NAME OF CONTRACTOR				SIGNATURE				TYPED NAME AND TITLE				DATE SIGNED (YYYYMMDD)	
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:													
17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE See Schedule													
18. ITEM NO.		19. SCHEDULE OF SUPPLIES/ SERVICES				20. QUANTITY ORDERED/ ACCEPTED*		21. UNIT		22. UNIT PRICE		23. AMOUNT	
		SEE SCHEDULE											
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.						24. UNITED STATES OF AMERICA (b) (6)(b) (6)(b) (6)(b) (6) (b) (6)(b) (6)(b) (6)(b) (6)(b) (6)(b) (6)(b) (6)(b) (6) (b) (6)(b) (6)(b) (6)(b) (6)(b) (6)(b) (6)(b) (6)(b) (6)				25. TOTAL \$421,451.89		26. DIFFERENCES	
27a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED													
b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE						c. DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					
e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE						28. SHIP NO.		29. DO VOUCHER NO.		30. INITIALS			
f. TELEPHONE NUMBER				g. E-MAIL ADDRESS				<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR	
36. I certify this account is correct and proper for payment.						31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL				34. CHECK NUMBER		35. BILL OF LADING NO.	
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER											
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)		40. TOTAL CONTAINERS		41. S/R ACCOUNT NO		42. S/R VOUCHER NO.			

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	Engineering and Technical Services CPFF				
				ESTIMATED COST FIXED FEE	
				TOTAL EST COST + FEE	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003AA	Holding SLIN for CLIN 0003 CPFF	1	Lot		NSI
	This priced SLIN is a holding SLIN for administrative purposes. This SLIN will be reduced with every additional incremental funding modification. The total unfunded ceiling on CLIN 0003 is				
	FOB: Destination				
	PSC CD: R425				
				ESTIMATED COST FIXED FEE	
				TOTAL EST COST + FEE	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003AB	Funding for CLIN 0003 CPFF 10 U.S.C 2410(a) Authority is hereby invoked. Funding is available for performance through the end of the task order period of performance or (1) year after the date of award, whichever occurs soonest. FOB: Destination PURCHASE REQUEST NUMBER: 1300903274 PSC CD: R425	1	Lot		
ESTIMATED COST FIXED FEE					
TOTAL EST COST + FEE					
ACRN AA CIN: 130090327400001					

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	Support Costs FFP				
NET AMT					

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004AA	Holding SLIN for CLIN 0004 COST This priced SLIN is a holding SLIN for administrative purposes. This SLIN will be reduced with every additional incremental funding modification. The total unfunded ceiling on CLIN 0004 is FOB: Destination PSC CD: R425	1	Lot		NSI
ESTIMATED COST					

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004AB	Support Costs COST 10 U.S.C 2410(a) Authority is hereby invoked. Funding is available for performance through the end of the task order period of performance or (1) year after the date of award, whichever occurs soonest. FOB: Destination PURCHASE REQUEST NUMBER: 1300903274 PSC CD: R425 ACRN AA CIN: 130090327400002	1	Lot	ESTIMATED COST	

CLAUSES INCORPORATED BY FULL TEXT

B-232-H005 PAYMENTS OF FEE(S) (LEVEL OF EFFORT)--ALTERNATE I (NAVSEA) (OCT 2018)

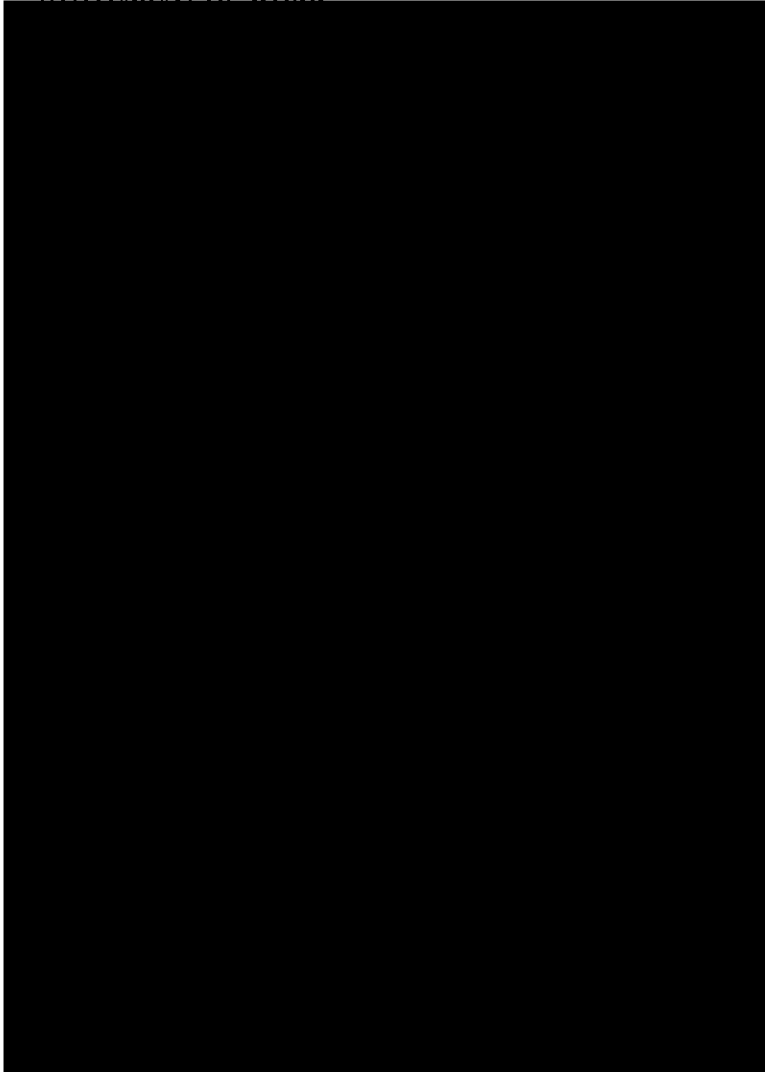
(a) For purposes of this contract, "fee" means "target fee" in cost-plus-incentive-fee type contracts, "base fee" in cost-plus-award-fee type contracts, or "fixed fee" in cost-plus-fixed-fee type contracts.

(b) The Government shall make payments to the Contractor, subject to and per the clause in this contract entitled "Fixed Fee" (FAR 52.216-8) or "Incentive Fee", (FAR 52.216-10), as applicable. Such payments shall be submitted by and payable to the Contractor pursuant to the clause of this contract entitled "Allowable Cost and Payment" (FAR 52.216-7), subject to the withholding terms and conditions of the "Fixed Fee" or "Incentive Fee" clause, as applicable. Fee paid per hour shall be based on total fee dollars divided by total hours to be provided. Total fee(s) paid to the Contractor shall not exceed the fee amount(s) set forth in this contract. In no event shall the Government be required to pay the Contractor any amount in excess of the funds obligated under this contract.

(End of text)

Section C - Descriptions and Specifications

STATEMENT OF WORK



**STATEMENT OF WORK
INSTALLATION SERVICES FOR SHIPS MODERNIZATION AND
TECHNICAL ADVANCEMENT**

1. SCOPE

1.1. Naval Surface Warfare Center, Philadelphia Division (NSWCPD), Codes 516, In-Service Engineering Agents (ISEAs) for ship systems are tasked with providing engineering and System testing and installation support for the design and installation of Ship Modernization Technologies. The objective of this contract is to obtain installation services to support NSWCPD implementation, and testing of Ship Change Documents (SCD) and other Machinery Control System alterations for US Navy LSD class ships related to the following:

- 1.1.1. Propulsion Load Management Unit (PLMU)
- 1.1.2. Advanced Engineering Control System (AECS)
 - 1.1.2.1. Machinery Control System (MCS) SCD-16380

2. Ship Installation Drawing References

- 2.1. LSD 41/49 Class Standard References
 - 2.1.1. Miscellaneous Electrical Equipment Foundations (Shock) 113-5293062
 - 2.1.2. Cable Installation Requirements 302-5302690
 - 2.1.3. Penetrations Surface Ships 101-5317400
 - 2.1.4. Typical TVSS Installation Methods 302-7539827
 - 2.1.5. Cable Entry Enclosure 321-8336628
- 2.2. SCD 16380 (MCS Tech Refresh) Ship Installation Drawings
 - 2.2.1. Rack Drawer Install Drawing NSWCPD-SPC-011C
 - 2.2.2. ICD, EQ RACK, W/CPU, FFIHS0211, FICD10605*
 - 2.2.3. ICD, EQ RACK, W/CPU, FFIHS0213, FICD10629*
 - 2.2.4. ASSY, MILCORTEX 19-INCH RACKMOUNT, 1171RS0004
 - 2.2.5. NEMA Enclosure Install Drawing NSWCPD-SPC-012C
 - 2.2.6. ICD, C-FRAME NEMA/CORTEX W/24" KYBD, FICD10608*
 - 2.2.7. ASSY, CONSOLE PLATE MODULE, 1171RS0002
 - 2.2.8. ICD, TD-R NEMA BTO W/CORTEX, FICD10607*
 - 2.2.9. ICD, 24" FP MON W/STOW USB, FFDSP0222, FICD10603*
 - 2.2.10. Pedestal Plate Install Drawing 1171RS0003
 - 2.2.11. ICD PED CONS, USB, W/SIDE MNT CORTEX, FICD10602*
 - 2.2.12. LSD MCMS 19-INCH MILCORTEX 2100 OIP, 121CRS0013
 - 2.2.13. LSD51 MCS Tech Refresh Foundation Removals, #183-8687684
 - 2.2.14. LSD51 MCS Tech Refresh Block Wiring Diagram, #438-8777970
 - 2.2.15. MCS Tech Refresh Arrangement Mods, #201-8777515
 - 2.2.16. LSD51 Power System Modifications MCS Tech Refresh, #321-8777828
 - 2.2.17. LSD51 AECS-LAN Modifications Incidental to MCS Tech Refresh Block Wiring Diagram, #415-8687475

*Proprietary drawings. Not required for bid. Will be provided after award

3. REQUIREMENTS**3.1. General Services**

- 3.1.1. Provide to NSWCPD the following support and services for the tasking listed in this statement of work.

3.1.1.1. Provide materials as identified in this document when accomplishing installation services in support of the tasking identified in this statement of work.

3.1.1.2. Ship equipment and materials to or from ship's home ports for installation.

3.1.1.3. Provide fiber optic cable assembly installation and test services, as required herein, in accordance with MIL-STD-2042C.

3.1.1.3.1. Fiber optic installers, supervisors, and Quality Assurance (QA) personnel shall meet Navy shipboard personnel proficiency requirements identified in MIL-STD-1678-1, Requirement 1306 for all fiber optic installations, modifications, and repairs.

3.2. LSD 41/49 Class systems

3.2.1. Propulsion Load Management Unit (PLMU) S/A 1338K.

3.2.1.1. Provide installation support for the integration of the Propulsion Load Management Unit (PLMU) and the Advanced Engineering Control System (AECS) on LSD-51. The PLMU is a proprietary SLC500 series Programmable Logic Controller (PLC) based system designed and installed by Rolls Royce Naval Marine Inc., (RRNMI). The PLMU is currently installed all LSD Class ships.

3.2.1.1.1. The contractor, Rolls Royce Naval Marine Inc, shall provide support for tech refresh installation, testing, and training for the PLMU system on-board LSD Class ships including pre and post tech refresh support.

3.2.1.2. The contractor shall estimate support for two ship visits from Rolls Royce Naval Marine Inc., (RRNMI) representative consisting of ten days each to include the following locations: Norfolk, VA (1).

3.2.2. Machinery Control System (MCS)

3.2.2.1. Provide installation support for the Advanced Engineering Control System (AECS) on LSD Class ships. The AECS is comprised of a Machinery Control System (MCS), Ship Control System (SCS) and a Local Area Network (LAN). Both MCS and SCS are Allen-Bradley Control Logix Programmable Logic Controller (PLC) based systems with a computer based Human Machine Interface (HMI) that operates over a LAN. The HMI equipment for the AECS MCS is a combination of Intergraph ruggedized consoles/workstations (10) and Operator Interface Panel (OIP) compact industrial workstations (3).

3.2.2.2. Provide services for installation of LSD Midlife MCS HW Tech Refresh, SCD 16380. A technical refresh of LSD Midlife is comprised of the following modifications to AECS MCS:

3.2.2.2.1. MCS Hardware Equipment Removals on LSD-51

3.2.2.2.1.1. Equipment Rack Removals

3.2.2.2.1.1.1. Remove equipment rack in Main Machinery Room 1 (MMR1) Enclosed Operating Station (EOS) to include the foundation.

3.2.2.2.1.1.1.1. Remove MCT associated with removed equipment rack and foundation

3.2.2.2.1.1.1.2. Repair deck and bulkhead due to foundation removal

3.2.2.2.1.1.1.3. Reroute or run new power and CAT5e cables to associated sitdown pedestal console.

3.2.2.2.1.1.2. Remove internal legacy components from the equipment rack to include monitor, keyboard, cabling, and computer assemblies.

Foundation and rack to stay intact from:

3.2.2.2.1.1.2.1. Engineering Log Room

3.2.2.2.1.1.2.2. Damage Control Central

3.2.2.2.1.1.2.3. Reference Drawings 2.2.13, 2.2.14, 2.2.15, 2.2.16

3.2.2.2.1.2. NEMA Workstation Removals

3.2.2.2.1.2.1. Remove legacy NEMA workstation equipment with foundations in the below spaces.

3.2.2.2.1.2.1.1. AUX1 EOS

3.2.2.2.1.2.1.2. MMR2 EOS

3.2.2.2.1.2.1.3. Remove MCT associated with removed NEMA workstation and foundation

3.2.2.2.1.2.1.4. Repair and patch deck and bulkhead due to foundation removal

3.2.2.2.1.2.1.5. Relocate disconnect switch associated with removed NEMA workstation to bulkhead

3.2.2.2.1.2.1.6. Reroute or run new power and CAT5e cables to associated sitdown pedestal console.

3.2.2.2.1.2.2. Remove internal legacy components from NEMA workstation to include monitor, keyboard, and internal computer assemblies.

Foundation and NEMA enclosure to stay intact from:

3.2.2.2.1.2.2.1. MMR1 Lower Level

3.2.2.2.1.2.2.2. MMR2 Lower Level

3.2.2.2.1.2.2.3. AMR2 EOS

3.2.2.2.1.2.3. Reference Drawings 2.2.5, 2.2.13, 2.2.14, 2.2.15, 2.2.16

3.2.2.2.1.3. Operator Interface Panel (OIP) Removals

3.2.2.2.1.3.1. Remove Daisy Data OIP computer assembly. Foundation to stay intact from:

3.2.2.2.1.3.1.1. Pilot House

3.2.2.2.1.3.1.2. Damage Control Central

3.2.2.2.1.3.1.3. MMR1 EOS

3.2.2.2.1.3.2. Reference Drawings 2.2.13, 2.2.14, 2.2.15, 2.2.16

3.2.2.2.1.4. All removed assemblies to be shipped back NSWCPD for determination for asset recovery condition. This includes the following:

3.2.2.2.1.4.1. Computers

3.2.2.2.1.4.2. Monitors

3.2.2.2.1.4.3. Keyboard with trackball

3.2.2.2.1.4.4. Internal Storage units

3.2.2.2.1.4.5. Ship to:

Receiving Officer NSLC

Philadelphia Naval Business Center

1601 Langley Avenue, Bldg 542E

Philadelphia, PA 19112

(b) (6)(b) (6)(b) (6)(b) (6)(b) (6)

3.2.2.2.2. MCS Hardware Installations on LSD-51

3.2.2.2.2.1. Operator Interface Panel (OIP) Installations

- 3.2.2.2.2.1.1. Replacement of Daisy Data OIP for a NAG OIP.
- 3.2.2.2.2.1.2. Install external cabling to support new OIP
- 3.2.2.2.2.1.3. There are three of these systems aboard the LSD-51
 - 3.2.2.2.2.1.3.1. Pilot House
 - 3.2.2.2.2.1.3.2. Damage Control Central
 - 3.2.2.2.2.1.3.3. MMR1 EOS
 - 3.2.2.2.2.1.3.4. Reference Drawings 2.2.12, 2.2.13, 2.2.14, 2.2.15, 2.2.16

3.2.2.2.2.2. NEMA Workstation Stand-up Style Console Installations

- 3.2.2.2.2.2.1. Replacement of computer assembly internal to NEMA workstation enclosure with new assembly plate containing a sealed PC.

- 3.2.2.2.2.2.2. Replacement of legacy monitor/keyboard/trackball assembly for stand-up console with new monitor/keyboard/trackball assembly.

- 3.2.2.2.2.2.3. Install external and internal cabling to support new sealed computer system, monitor, and keyboard.

- 3.2.2.2.2.2.4. There are three of these systems aboard each ship.

- 3.2.2.2.2.2.4.1. MMR1 Lower Level
- 3.2.2.2.2.2.4.2. MMR2 Lower Level
- 3.2.2.2.2.2.4.3. AMR2 EOS
- 3.2.2.2.2.2.4.4. Reference Drawings 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.13, 2.2.14, 2.2.15., 2.2.16

3.2.2.2.2.3. Pedestal Sit Down Style Console Installation

- 3.2.2.2.2.3.1. Replacement of monitor/keyboard/trackball assembly on pedestal style console.

- 3.2.2.2.2.3.2. Modify lower section of pedestal console to install a new assembly plate containing a sealed PC.

- 3.2.2.2.2.3.3. Install external and internal cabling to support new sealed computer system.

- 3.2.2.2.2.3.4. There are four of these systems aboard each ship.

- 3.2.2.2.2.3.4.1. MMR1 EOS 2ea
- 3.2.2.2.2.3.4.2. MMR2 EOS 1ea
- 3.2.2.2.2.3.4.3. AMR1 EOS 1ea
- 3.2.2.2.2.3.5. Reference Drawings 2.2.10, 2.2.11, 2.2.13, 2.2.14, 2.2.15, 2.2.16

3.2.2.2.2.4. Equipment Rack Drawer Unit Installation

- 3.2.2.2.2.4.1. Replace two rack mounted computers and replace with sealed PC installed on rack mounted 2U drawer assemblies.

- 3.2.2.2.2.4.2. Replace two rack mounted monitor/keyboard units with new units.

- 3.2.2.2.2.4.3. Install external and internal cabling to support new sealed computer system and monitors.

3.2.2.2.2.4.4. There are two of these racks with 2 drawer units each onboard.

3.2.2.2.2.4.4.1. Damage Control Central

3.2.2.2.2.4.4.2. Eng Log Room

3.2.2.2.2.4.4.2.1. Replace desktop monitor, keyboard, and mouse with new units.

3.2.2.2.2.4.4.2.2. Replace cabling from rack to desktop monitor, keyboard, and mouse with new cables.

3.2.2.2.2.4.5. Drawing Reference 2.2.1, 2.2.2, 2.2.3, 2.2.13, 2.2.14, 2.2.15, 2.2.16

3.2.2.2.2.4.6. Remove fiber optic network cables for Network Management Station and replace with Cat5e cables back to network switches from the unit installed in Damage Control Central

3.2.2.2.2.4.6.1. Drawing Reference 2.2.17

3.2.2.2.2.5. MCS Printer Replacement

3.2.2.2.2.5.1. Replace MCS printer located in the Eng Log Room with new tech refresh unit.

3.2.2.2.3. LSD-51 MCS Hardware Technical Refresh Installation schedule

3.2.2.2.3.1. LSD-51 installation is scheduled to begin in **August 2021**.

3.2.2.2.3.1.1.1. Installation location to be in Norfolk, VA.

3.2.2.3. Provide installation support for addressing system discrepancies discovered during installation and post deployment phases of the alteration.

3.2.2.3.1. AECS Programmable Logic Controllers and input/output devices connected to the controllers.

3.2.2.3.2. AECS Human Machine Interfaces (HMI).

3.2.2.3.3. Ship is home based in Norfolk, VA

3.2.2.3.4. Contractor shall estimate support to Norfolk, VA for this effort.

3.2.2.4. Contractor shall anticipate providing the following material in support of each MCS SCD 16380 Installation:

3.2.2.4.1. Hoffman Door, P/N Z24248SS, Qty 2

3.2.2.4.2. Rugged Science OIP Power Connector Kit, P/N CFK-0MN-RS03, Qty 3

3.2.2.4.3. Rugged Science OIP Ethernet Connector Kit, P/N CFK-1MN-RS01, Qty 3

3.2.2.4.4. USB Cutout tool, Qty 1

3.2.2.4.5. Magnetic Speed pickup, P/N 70085-1010-054, Qty 8

3.2.2.4.6. Fuel Rack Sensor, P/N P12619142, Qty 2

4 APPLICABLE DOCUMENTS/REFERENCES

The following instructions and standards are not all inclusive:

- 4.1 MIL-STD-2042B (SH) Fiber Optic Topology Installation Standard Methods for Naval Ships (Equipment/Connectors and Inter-connectors) - Validated 05/30/2007

- 4.2 NAVSEA S9AAO-AB-GOS-010/GSO, General Specifications for Overhaul of Surface Navy Ship - Version 11/30/2004 - Version 11/30/2004
- 4.3 DOD-STD-2003, Electric Plant Installation Standard Methods for Surface Ships and Submarines - Version 12/17/1990
- 4.4 MIL-STD-454, Standard General Requirements for Electronic Equipment – Version 04/15/2007
- 4.5 MIL-STD-1310 (Navy), Bonding and Grounding - Version 06/28/1996
- 4.6 OPNAV Instruction 5100.23G, Navy Occupational Safety and Health (NAVOSI-) Program Manual - Version 12/30/2005
- 4.7 Standards and Interpretations, Occupational Safety and Health Chapter I 1915.14, 1915.15 and 1915.16 - Version 12/30/2005
- 4.8 NAVSEA SL720-AA-MAN-020, FMP Management & Operations Manual – Version 06/01/2002
- 4.9 NAVSEA 9090-310D, SHIPALT by Alteration Installation Team - Version 02/2004 or later
- 4.10 NAVSSES Instruction 4720.2D, Process and Policy for Shipboard Industrial Work – Version 07/12/2007
- 4.11 MIL-STD-24749, Electrical Grounding, General Specifications - Version 08/13/1990
- 4.12 MIL-DTL-22520G, General Specification for Crimping Tools and Wire Termination – Version G, dated 09/12/1997
- 4.13 The following is a list of 478K drawing references - Hull Specific issued by Planning Yard
 - 4.13.1 7649038–478K, EPCS Upgrade Phase I local area network and Video Isometric Cabling Diagram - Hull Specific issued by Planning Yard
 - 4.13.2 7649039–478K, EPCS Upgrade Phase I local area network and Video Elementary Diagram - Hull Specific issued by Planning Yard
 - 4.13.3 7649045–478K, EPCS Upgrade Phase I circuit modifications - Hull Specific issued by Planning Yard
- 4.14 NAVSEA STANDARD ITEM 009-22 (Shipboard Electric Cable Test) - Version 07/19/2007
- 4.15 NAVSEA 0967-LP-000-0110 Electronics Installation and Maintenance Book, Installation Standards - Dated 09/01/1977
- 4.16 Government Furnished Material Lists - Hull Specific issued by Planning Yard
- 4.17 S0400-AD-URM'-010/TUM, Tag-Out Users Manual ANSI/ASQC Q9002-1994, Quality Systems, Model for Quality Assurance in Production, Installation, and Servicing – Dated 05/29/2009
- 4.18 ANSI/ISO/ASQ Q9001-2000, Quality Management Systems - Requirements – Version 11/15/2008
- 4.19 NAVSEA STANDARD ITEMS (All Category I) <http://www.supship.navy.mil/ssrac4/standard.htm>

5 DELIVERABLES

- 5.1 Progress and Financial Reports: A monthly progress and financial report will be submitted to the Subject Matter Expert (SME) with a copy to the Contracting Officer. (CDRL A002)
- 5.2 Status Reports: For any travel required, the contractor will report the destination, number of travelers, duration of stay, task milestones completed, site points of contact, ship, and hull number visited. (CDRL A001)
- 5.3 Installation Completion Report: Contractor shall immediately fax completion report to NSWCCD at the conclusion of any alteration. (CDRL A014)
- 5.4 QA workbook to be NSWCPD approved no later than 20 August 2021. (CDRL A004)
- 5.5 Ship check report containing plant/equipment and a report of recommended repairs within five (5) working days of pre/post installation ship check completion. (CDRL A013)

6 GOVERNMENT FURNISHED MATERIAL/INFORMATION

- 6.1 NSWCPD will provide all available drawings and associated documentation.
- 6.2 NSWCPD will provide Shipboard Integrated Test Plan and Test Procedures which will be used to test functionality of all SCD installed/relocated systems or equipment.
- 6.3 NSWCPD and planning yard will provide all required GFM and GFI(Ref: 'LSD51 AECS GFP.pdf') to complete SOW indicated in Ref 3.22.

7 CONTRACTOR FURNISHED MATERIAL

- 7.1 For SCD 16380, provide all miscellaneous and incidental installation material identified as IAF in the installation drawings and auxiliary equipment.
- 7.2 Furnish all necessary test equipment to validate installation, testing and operation of cables, material, and equipment in the execution of this delivery order.

8 TRAVEL

- 8.1 Travel in support of this requirement will be located in Norfolk, VA
- 8.2 The number of times the Contractor may be required to travel to each location cited above may vary as program requirements dictate, provided that the total estimated travel cost is not exceeded. The numbers of trips and types of personnel traveling shall be limited to the minimum required to accomplish work requirements. Actual cost, resulting from the performance of travel requirements, shall be reported as part of the Contractor's monthly status report. The reportable cost shall also be traceable to the Contractor's invoice.
- 8.3 All travel shall be conducted in accordance with FAR 31.205-46, Travel Costs, and B-231-H001 Travel Cost (NAVSEA). The Contractor shall submit travel reports in accordance with DI-MGMT-81943 (CDRL A002).
- 8.4 Travel Costs

- 8.4.1 The current “maximum per diem” rates are set forth in the (i) Federal Travel Regulations for travel in the Continental United States; (ii) Joint Travel Regulations for Overseas Non-Foreign areas (e.g., Alaska, Hawaii, Guam, Puerto Rico, etc.); and (ii) Department of State (DOS) prescribed rates for foreign overseas locations.

9 PLACE OF PERFORMANCE

- 9.1 Place of Performance will occur in Norfolk, VA. Shipyard is to be determined.

10 PERSONNEL

- 10.1. Personnel Requirements. All persons proposed in key and non-key labor categories shall be U.S. citizens holding at least a current CONFIDENTIAL clearance, or ability to obtain one.
- 10.2. During performance, AIT employees shall identify themselves as AIT personnel by introducing themselves or by displaying distinguishing badges or other visible identification for meetings with Government personnel. AIT personnel shall appropriately identify themselves as AIT employees in telephone conversations and formal and informal written correspondence.

11 OVERTIME

- 11.1 Overtime is authorized for this requirement. Clause 52.222-2 Payment for Overtime Premiums is applicable and will be included in the task order award document.
- For overtime premium costs to be allowable costs; the Contracting Officer is required to approve the performance of overtime prior to the actual performance of overtime. The dollar amount in FAR 52.222-2 shall equal overtime premium negotiated between the Government and the prime contractor. This overtime premium amount shall equal the prime contractor's unburdened premium OT labor costs plus the subcontractors' fully-burdened premium OT labor costs.

12 CLASSIFIED MATERIAL/INFORMATION: None

13 SECURITY REQUIREMENTS:

- 13.1 The Contractor is responsible for completing all required Government mandated training to maintain security and network access to government sites and IT systems to include but not limited to: Antiterrorism Level 1 Awareness; DoD Cyber Awareness Challenge; Combatting Human Trafficking; Records Management in the DON: Everyone's Responsibility; Training and Readiness: The Active Shooter; Constitution Day; NAVSEA Introduction to Controlled Unclassified Information; Operations Security (OPSEC); NAVSEA Counterintelligence Training; Privacy and Personally Identifiable Information (PII) Awareness Training; and NAVSEA Physical Security training. Certificates of successful completion shall be sent to the COR and as otherwise specified in the contract. Certificates of successful completion shall be sent to the COR and as otherwise specified in the contract.
- 13.2 In accordance with SECNAV M-5510.30 Chapters 5 and 6, all Contractor personnel that require access to Department of Navy (DON) information systems and/or work on-site are designated Non-Critical Sensitive/IT-II positions, which require an open investigation or favorable adjudicated National Agency Check (NACLC) by the Industrial Security Clearance Office (DISCO). Investigations should be completed using the SF-86 Form and the SF-87 finger print card. An interim clearance can be granted by the company Security Officer and recorded in the Joint Personnel Adjudication System (JPAS). An open or closed investigation with a favorable adjudication is required prior to issuance of a badge providing access to NSWCPD sites and buildings. If an unfavorable adjudication is determined by DISCO all access will be terminated. For Common Access Card (CAC) card you must have a completed investigation that has been

favorably adjudicated or a final security clearance. A CAC Card will not be issued to contractors who have an interim Security clearance.

- 13.3 Contractor personnel that require a badge to work on-site at one of the NSWCPD sites must provide an I-9 form to verify proof of citizenship. The I-9 form should be signed by the company Facility Security Officer or the company Human Resource Department. In addition to the I-9 form, Contractors shall also bring their birth certificate, current United States Passport or naturalization certificate and state issued ID to the NSWCPD Security Officer at the time of badge request to verify citizenship. Finally, contractors shall supply a copy of their OPSEC Training Certificate or other proof that the training has been completed.
- 13.4 Construction badges for contractor personnel that work on-site at one of the NSWCPD sites will be good for 60 days.
- 13.5 A Facility Access Determination (FAD) will be completed on any contractor that does not have a favorable adjudicated investigation in JPAS and is requesting swipe/non-swipe access to our buildings in excess of 120 days. Any contractor that has unfavorable information that has not been favorably adjudicated by Department of Defense Central Adjudication Facility (DOD CAF) will not be issued a badge.
- 13.6 This effort may require access to classified information up to the CONFIDENTIAL level. No classified data will be generated or stored by the Contractor. The Contractor is required to have and maintain a CONFIDENTIAL clearance. The requirements of the attached DD Form 254 apply.
- 13.7 The Contractor shall appoint a Facility Security Officer (FSO), who shall (1) be responsible for all security aspects of the work performed under this contract, (2) assure compliance with the National Industrial Security Program Operating Manual (NISPOM) (DOD 5220.22-M), and (3) assure compliance with any written instructions from the work site Security POC.
- 13.8 The Prime Contractor shall:
- 13.8.1 Forward signed copies of DD254s provided to subcontractors to the Naval Surface Warfare Center Philadelphia Division (NSWCPD), ATTN: Security.
- 13.8.2 Direct the subcontractor to obtain approval, through the prime Contractor, for the public release of information received or generated by the sub through the prime Contractor.
- 13.8.3 Submit the subcontractor request for public release through the technical point of contact identified on the DD 254.
- 13.9 The planned utilization of non-U.S. Citizens in the performance of this contract effort must be identified by name and country of citizenship in the proposal. Foreign Nationals shall not be allowed access to classified or critical program information unless approved on a case by case basis by DSS.

14 PERIOD OF PERFORMANCE: Date of Award through 12 March 2022.

15 COR: (b) (6)(b) (6)(b) (6)(b) (6)(b) (6)(b) (6)

16 TECHNICAL POINT OF CONTACT: (b) (6)(b) (6)(b) (6)(b) (6)(b) (6)(b) (6)

17 NSWCPD ELECTRONIC COST REPORTING AND FINANCIAL TRACKING (eCRAFT) SYSTEM

17.1 In accordance with Clause C-237-W001, the Contractor is required to upload their Contractor's Funds and Man-hour Expenditure Reports in the Electronic Cost Reporting and Financial Tracking (eCRAFT) System.

17.2 The contractor agrees to provide supporting accounting system reports, at the Contracting Officer's request, based on the review of the invoice documentation submitted to eCRAFT. This documentation will include reports such as the Job Summary Report (or equivalent), Labor Distribution Report (or equivalent), and General Ledger Detail Report (or equivalent). Supporting labor data provided must include unburdened direct labor rates for each employee and labor category. Cost breakdowns for ODCs, Materials, travel and other non-labor costs must be at the transactional level in sufficient detail so

the Government can review allocability to the contract/task order. Indirect costs allocated to direct costs must be shown at the lowest level of detail sufficient to reconcile each indirect rate to the appropriate allocation base.

17.3 On invoices containing subcontractor costs, the prime contractor agrees, at the Contracting Officer's request, to attach as supporting documentation all invoices received from subcontractors, unless the subcontractor submits invoices directly to the CO and COR. This requirement applies to all subcontract types (Cost, FFP, etc.).

18 Enterprise-Wide Contracting Manpower Reporting Application (ECMRA)

18.1 The Contractor is to report labor hours required for performance of services IAW Clause C-237-H001.

18.2. The Contractor is required to completely fill in all required data fields using the following web address <https://www.ecmra.mil>

18.3. Reporting inputs will be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year. Contractors may direct questions to the help desk, linked at <https://www.ecmra.mil>

19 RELEASE OF INFORMATION

All technical data provided to the contractor by the Government and/or by the contractor for the Government shall be protected from public disclosure in accordance with the markings contained therein. All other information relating to the items being delivered or services being performed under this delivery order may not be disclosed by any means without prior approval of the authorized representative of the contracting officer. Dissemination or public disclosure includes, but is not limited to: permitting access to such information by foreign nationals or by any other persons on entity, publication or technical or scientific, advertising, or any other proposed public release. The contractor shall provide adequate physical protection to such information so as to preclude access by any person or entity not authorized such access by the Government.

CLAUSES INCORPORATED BY FULL TEXT

C-237-H001 SERVICE CONTRACT REPORTING (NAVSEA) (JAN 2021)

(a) Services Contract Reporting (SCR) requirements apply to this contract. The contractor shall report required SCR data fields using the SCR section of the System for Award Management (SAM) at following web address: <https://sam.gov/SAM/>.

(b) Reporting inputs will be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall

be reported no later than October 31 of each calendar year. Contractors may direct questions to the help desk, linked at <https://sam.gov/SAM/>.

(End of text)

C-237-W001 ELECTRONIC COST REPORTING AND FINANCIAL TRACKING (eCRAFT) SYSTEM REPORTING (NAVSEA) (MAY 2019)

(a) The Contractor agrees to upload the Contractor's Funds and Man-hour Expenditure Reports in the Electronic Cost Reporting and Financial Tracking (eCRAFT) System and submit the Contractor's Performance Report on the day and for the same timeframe the contractor submits an invoice into the Wide Area Workflow (WAWF) module on the Procurement Integrated Enterprise Environment (PIEE) system. Compliance with this requirement is a material requirement of this contract. Failure to comply with this requirement may result in contract termination.

(b) The Contract Status Report indicates the progress of work and the status of the program and of all assigned tasks. It informs the Government of existing or potential problem areas.

(c) The Contractor's Fund and Man-hour Expenditure Report reports contractor expenditures for labor, materials, travel, subcontractor usage, and other contract charges.

(1) Access: eCRAFT: Reports are uploaded through the eCRAFT System Periodic Report Utility (EPRU). The EPRU spreadsheet and user manual can be obtained at: <http://www.navsca.navy.mil/Home/Warfare-Centers/NUWC-Newport/Partnerships/Commercial-Contracts/Information-eCraft/> under eCRAFT information. The link for eCRAFT report submission is: https://www.pdrep.csd.disa.mil/pdrep_files/other/ecraft.htm. If you have problems uploading reports, please see the Frequently Asked Questions at the site address above.

(2) Submission and Acceptance/Rejection: The contractor shall submit their reports on the same day and for the same timeframe the contractor submits an invoice in WAWF. The amounts shall be the same. eCRAFT acceptance/rejection will be indicated by e-mail notification from eCRAFT.

(End of text)

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0003	N/A	N/A	N/A	N/A
0003AA	N/A	N/A	N/A	Government
0003AB	Destination	Government	Destination	Government
0004	N/A	N/A	N/A	N/A
0004AA	N/A	N/A	N/A	Government
0004AB	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
0003	N/A	N/A	N/A	N/A
0003AA	POP 28-JUN-2021 TO 12-MAR-2022	N/A	NAVAL SURFACE WARFARE CENTER PHILA (b) (6)(b) (6)(b) (6) NSWC PHILADELPHIA DIVISION NSLC DETACHMENT 1601 LANGLEY AVE BLDG 542 PHILADELPHIA PA 19112 (b) (6)(b) (6) FOB: Destination	N64498
0003AB	POP 28-JUN-2021 TO 12-MAR-2022	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	N64498
0004	N/A	N/A	N/A	N/A
0004AA	POP 28-JUN-2021 TO 12-MAR-2022	N/A	NAVAL SURFACE WARFARE CENTER PHILA (b) (6)(b) (6)(b) (6) NSWC PHILADELPHIA DIVISION NSLC DETACHMENT 1601 LANGLEY AVE BLDG 542 PHILADELPHIA PA 19112 (b) (6)(b) (6) FOB: Destination	N64498
0004AB	POP 28-JUN-2021 TO 12-MAR-2022	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	N64498

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 1711804 8B5B 251 VU021 0 050120 2D 000000

COST CODE: A00005957851

AMOUNT: [REDACTED]

ACRN	CLIN/SLIN	CIN	AMOUNT
AA	0003AB	130090327400001	[REDACTED]
	0004AB	130090327400002	[REDACTED]

CLAUSES INCORPORATED BY FULL TEXT

52.222-2 PAYMENT FOR OVERTIME PREMIUMS (JUL 1990)

(a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed [REDACTED] or the overtime premium is paid for work --

(1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdowns of production equipment, or occasional production bottlenecks of a sporadic nature;

(2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;

(3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or

(4) That will result in lower overall costs to the Government.

(b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall--

(1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;

(2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;

(3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and

(4) Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

* Insert either "zero" or the dollar amount agreed to during negotiations. The inserted figure does not apply to the exceptions in paragraph (a)(1) through (a)(4) of the clause.

(End of clause)

Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

52.232-22	Limitation Of Funds	APR 1984
52.245-1	Government Property	JAN 2017
52.245-9	Use And Charges	APR 2012
252.211-7007	Reporting of Government-Furnished Property	AUG 2012
252.245-7001	Tagging, Labeling, and Marking of Government-Furnished Property	APR 2012
252.245-7002	Reporting Loss of Government Property	JAN 2021
252.245-7003	Contractor Property Management System Administration	APR 2012
252.245-7004	Reporting, Reutilization, and Disposal	DEC 2017